

Col. Abner
1919

ANNUAL REPORT
OF THE
PORT HEALTH OFFICER, RANGOON
FOR THE YEAR 1919



RANGOON
OFFICE OF THE SUPERINTENDENT, GOVERNMENT PRINTING, BURMA
1920

[Price,—As. 4]

LIST OF AGENTS
FOR THE
SALE OF GOVERNMENT PUBLICATIONS.

IN INDIA:

AMERICAN BAPTIST MISSION PRESS, Rangoon.
RANGOON TIMES PRESS, Rangoon.
THACKER, SPINK & Co., Calcutta and Simla.
W. NEWMAN & Co., Calcutta.
BUTTERWORTH & Co. (India), Ltd., Calcutta.
THACKER & Co., Ltd., Bombay.
* D. B. TARAPOREVALA, Sons & Co., Bombay.
HIGGINBOTHAM & Co., Madras.

IN ENGLAND:

HENRY S. KING & Co., 65, Cornhill, E.C.
A. CONSTABLE & Co., 10, Orange Street, Leicester Square, W.C.
KEGAN PAUL, TRENCH, TRUBNER & Co., Ltd., 68-74, Carter Lane,
E.C., and 25, Museum Street, W.C.
BERNARD QUARITCH, 11, Grafton Street, New Bond Street, W.
P. S. KING & SON, 2 & 4, Great Smith Street, Westminster, S.W.
GRINDLAY & Co., 54, Parliament Street, S.W.
T. FISHER UNWIN, Ltd., 1, Adelphi Terrace, W.C.
W. THACKER & Co., 2, Creed Lane, Ludgate Hill, E.C.
LUZAC & Co., 46, Great Russell Street, W.C.
WILLIAM WESLEY & SON, 28, Essex Street, Strand, W.C.
OLIVER & BOYD, Tweeddale Court, Edinburgh.
E. PONSONBY, Ltd., 116, Grafton Street, Dublin.
B. H. BLACKWELL, 50 & 51, Broad Street, Oxford.
DEIGHTON, BELL & Co., Ltd., Trinity Street, Cambridge.

ON THE CONTINENT:

ERNEST LEROUX, 28, Rue Bonaparte, Paris, France
MARTINUS NIJHOFF, The Hague, Holland.

* For the sale of official publications excluding those of the
Legislative Department of the Government of Burma.



22501418418

No. 2942.

SANITARY DEPARTMENT.

FROM

LIEUT.-COL. C. E. WILLIAMS, M.D., D.P.H., D.T.M., I.M.S.,

Sanitary Commissioner, Burma,

TO

THE SECRETARY TO THE GOVERNMENT OF BURMA.

Dated Rangoon, the 31st May 1920.

SIR,

I have the honour to submit the report of the Port Health Officer, Rangoon, for the year 1919.

(2) The appointment of Port Health Officer was filled successively by Mr. J. F. D'Mello from 1st January to 16th April, Mr. C. G. Crow, I.M.D., from 16th April to 20th June, and by Dr. F. A. Foy, the permanent incumbent, from the date of his return from leave on 21st June to the end of the year, Mr. B. Solomon, Assistant Port Health Officer, retired on pension from the 10th February, Dr. Anklesaria succeeded to the vacancy. Nurse Inspectress Mrs. Browne died on the 8th January 1920; she was succeeded in the full-time appointment by Mrs. Stephenson whose part-time appointment was filled by Mrs. Taylor.

To these officers and to the subordinate establishment of all grades my thanks are due for the steady and conscientious performance of their duties throughout the year.

(3) The inspection of all vessels from India Ports for influenza and acute pneumonia was made compulsory by a Government Notification issued on the 6th September 1919, and a special additional establishment was sanctioned in the Port Health Department to cope with the increased work. Difficulties were however encountered in obtaining candidates for the new appointment and this establishment was only partly recruited by the end of the year.

(4) Incoming vessels from India, Foreign, and Riverine Ports numbered 1,075, twenty-five more than in 1918. Of these over-seas vessels totalled 1,067, 741 from India and 326 from Foreign Ports, against 564 and 380 in 1918. Out of 271,453 arriving passengers 259,298 were from India Ports, being 28,521, more than in 1918. Those from foreign ports numbered 12,155, an increase of 4,794.

In the latter part of the year all cargo vessels from India were inspected under the Influenza Notification. Hence only 434 over-seas vessels, 80 less than in 1918, were not inspected.

(5) *Inspection* was carried out on 633 sea-going vessels, a nearly 50 per cent. increase on the work of the previous year. Passengers and crews to the number of 270,514 and 55,856 respectively, were personally medically examined.

One hundred vessels were inspected under the Port Health Regulations (Notification 73 of 1917). On 45 of these vessels 134 cases of infectious diseases

were reported; 24 vessels were infected with cholera of which disease 38 cases reached Rangoon alive, and 52 were buried at sea; 14 vessels were infected with small-pox; 20 out of 24 cases of small-pox were landed in Rangoon. Chicken-pox, Measles, Mumps, and Enteric Fever cases reported numbered respectively 7, 5, 1 and 5. The Enteric Fever cases all occurred on the same vessel and included one European passenger. On the above 45 vessels 10 more cases of cholera and 6 of small-pox were detected on inspection and one further case of the last named disease developed among suspects sent to hospital. One cholera case from a small-pox infected-vessel developed in town. Two cases of cholera and 12 of small-pox were discovered on inspection in vessels which did not report having infection on board. A further 256 vessels were inspected solely under the Vaccination Act of 1909. On 29 of these vessels 39 cases of small-pox not declared by the ships' masters were detected. On two out of 134 vessels inspected under the Indian Ports Act (section 17—2D) three cases of small-pox were discovered. Thus 86 vessels in all were found to be infected.

In all 105 cholera cases and 85 small-pox cases were reported on arrival or discovered during inspection—of these 13 cases of cholera and 61 of small-pox were not reported by the ships' masters.

Lepers detected among the immigrants numbered 23. These were made over to the Police.

(6) *Disinfection* was applied to the effects of 23,306 passengers and crew, and wholly or partially to 216 vessels, including 139 washed down for influenza infection.

(7) *Vaccination*.—Out of 236,139 passengers and crew inspected in regard to their state of vaccination, 6,455 or 2.73 per cent. were compulsorily vaccinated, against from 16 to 20 per cent. in 1916.

(8) *Out-going vessels* to the number of 362, of which 56 were destined for Tavoy, were inspected; 25,657 crew and 23,931 passengers underwent medical examination and the effects of 37,443 deck passengers and crew were disinfected. One case of cholera, 8 of small-pox, and 24 of influenza were detected and stopped. Three vessels were fumigated by request after unloading, for destruction of rats.

The Port Health Officer points out the necessity for greatly increased accommodation for inspecting incoming and outgoing passengers, and for improved equipment including baths for suspects, and a tank for washing boxes, etc. of deck passengers. The subject of improving the accommodation and equipment of the Port Health Department has engaged the attention of Government during the year.

I have the honour to be,

SIR,

Your most obedient servant,

C. E. WILLIAMS, M.D., D.P.H., I.M.S.,
Sanitary Commissioner, Burma.

WELLINGTON
1919
WA28
752
B19
1919

ANNUAL REPORT
OF THE
PORT HEALTH OFFICER, RANGOON
FOR THE YEAR 1919.

No. 218—P.-23.

SANITARY DEPARTMENT.

FROM

DR. F. ARTHUR FOY, D.P.H.,
Port Health Officer, Rangoon,

TO

THE SANITARY COMMISSIONER, BURMA.

Dated Rangoon, the 11th March 1920.

SIR,

I have the honour to submit the Annual Report of the work done by the Port Health Department for the year ending 31st December 1919 as under:—

1. *Staff.*—(a) Owing to the absence on leave of Dr. F. Arthur Foy, D.P.H., the appointment of Port Health Officer was held during this year as follows:—

1st January to 15th April 1919, Dr. J. F. D'Mello, D.P.H., D.T.M. and H.,

16th April to 20th June 1919, Dr. C. G. Crow, K.-I.-H., I.M.D.,

21st June to 31st December, Dr. F. Arthur Foy, D.P.H.

(b) The 1st Assistant Port Health Officer Dr. Vazeer, D.P.H., held his appointment throughout the year.

(c) The 2nd Assistant Port Health Officer Mr. Solomon was granted a compensatory pension with effect from 10th February 1919 when Dr. Anklesaria (M.B., B.S., Bombay) was appointed.

(d) The full-time Nurse and Inspectress Mrs. Browne was unfit to continue her duties. She died on 8th January 1920. The part-time Nurse and Inspectress, Mrs. Stephenson, was appointed instead and Mrs. Taylor was given the part-time appointment.

(e) Sub-Assistant Surgeon Prasad obtained another appointment on the 11th September 1919 and Sub-Assistant Surgeon Pinto was appointed. Sub-Assistant Surgeon Kastagir was appointed in place of Sub-Assistant Surgeon Chowdhury, not registered, on the 20th February 1919, and retained his appointment till the close of the year.

(f) The rest of the staff retained office. When the Influenza Notification was issued on 6th September 1919, a small temporary extra staff was sanctioned but it was found impossible to obtain any of them till about 26th December 1919 and a temporary Assistant Port Health Officer was even then not available.

INSPECTION OF IN-COMING VESSELS.

2. There were 1,075 vessels from Indian, Foreign and Riverine ports or 25 more than in 1918, carrying 271,730 passengers or 33,465 more than in 1918.

Sea-going vessels.—Of the above vessels, 1,067 were sea-going vessels from Indian and Foreign ports, 741 being from India and 326 from Foreign ports against 564 and 380 in 1918 respectively.

Passengers.—Of the above passengers, 271,453 arrived by sea-going vessels from Indian and Foreign ports, 259,298 being from Indian and 12,155 from Foreign ports against, 230,777 and 7,361 respectively.

Vessels not visited.—These were 434 or 80 less than in 1918 because under the Influenza Notification all cargo vessels from Indian ports were visited which had not been visited in the previous year. The rest were cargo vessels that arrived uninfected from Foreign ports or from India prior to the issue of the Notification referred to. These vessels were reported to have carried 27,133 members of crew and 939 passengers.

Vessels visited—(a) *Seagoing.*—These were 633 or an increase on 1918 of 203 (nearly 50 per cent.) and carried 55,856 members of crews and 270,514 passengers.

3. Regulations under which they were visited are :—

A—General Department Notification No. 73, dated the 13th March 1917 (Parts I to VII) one hundred vessels come under this regulation and included the following reports :—

(i) *Infectious diseases* were reported by the Commanders of 45 vessels (11 more than in 1918) reporting 134 cases (80 more than in 1918). Twenty-four Commanders reported 92 cases of cholera on board on arrival of which 52 died and were buried at sea and 38 sent to hospital in Rangoon and 2 left at other ports (15 cases were reported on one vessel in February), 14 Commanders reported 24 cases of small-pox or 8 and 16 more respectively than in 1918, of which 4 were left at other ports, 2 of these cases of small-pox were reported by Commanders of vessels that reported cholera as well (doubly infected). Four Commanders reported 7 cases of chicken-pox. One reported 5 cases of measles of which one was landed at another port. One reported one case of mumps which was sent to the Contagious Disease Hospital here. One reported 5 cases of enteric which were all landed here and sent to the Civil General Hospital one European passenger and 4 members of the European crew. Of the latter, 2 have been discharged, while 2 are still under treatment. One case is said to have occurred on the return voyage and been landed at Colombo. The cause of the outbreak has not been traceable.

Detected.—On the above 45 vessels 19 more cases were detected at the medical inspection held in consequence of the reports, namely *cholera* 10 more cases on 4 steamers (of which 7 were on one steamer, during disembarkation and disinfection of effects of passengers on which 15 had already been reported by the Commander) and 2 cases were detected from among one other steamer's passengers. *Small-pox* 6 more cases. *Chicken-pox* 3 more cases.

Developed in hospital.—From one vessel (small-pox one case) among suspects sent for observation.

Developed in town.—From one vessel (cholera one case) that had already reported small-pox on arrival.

(ii) *Non-infectious deaths* were reported on 38 vessels. These deaths numbered 61 and were most numerous in April (10).

On these vessels 14 cases of infectious disease were detected during inspection under the Vaccination Law Amendment Act.

Cholera 2 cases on 2 vessels on which 2 deaths had already been reported.

Small-pox 12 cases on 5 vessels of which 8 cases were on 2 vessels in March.

(iii) *East African Ports*—Seventeen vessels arrived. No cases of jigger or sleeping sickness were detected at inspection. Four of these arrived in April and 4 in July.

(iv) *Suspicious illness.*—Cases of these were reported on the above vessels, 206 in number, but after observation these did not prove to be cases of infectious disease.

The temperatures of 282 persons were tried of which 12 were normal and the rest were placed under observation.

B.—*Vaccination Act, 1909.*—The vessels inspected under this Act were 356 in number but if the 100 under "A" (which were mostly all examined under this Act) be deducted, there were 256 vessels (or 55 more than in 1918), that

is excluding the cargo steamers from India examined for Influenza since September 1919. This larger number inspected is due to the larger number of vessels from Indian ports that arrived.

On 33 of these vessels 43 cases of infectious diseases were detected by this department during the inspections, namely, 39 cases of small-pox from 29 vessels and 4 cases of chicken-pox from 4 vessels. In addition to the benefit of vaccination of unprotected persons under this Act, 39 cases of small-pox having been detected so many foci of disease were hereby reduced.

C.—*Indian Ports Act*.—Section 17-2D.—The Vessels inspected under this Act number 134. On 2 of these vessels 3 cases of small-pox were detected during observation of passengers.

The aggregate number of vessels under B and C is 490 (all passenger vessels.)

The aggregate number of infected vessels under A, B and C is 86 (mostly passenger vessels).

D.—The number of extra vessels inspected under Notification No. 229, dated the 6th September 1919, making it incumbent on all vessels entering Rangoon from any port in India or Burma to undergo inspection as a precaution against the spread of influenza has since 6th September 1919 involved the inspection of 143 cargo vessels from India in excess of what were inspected under the other Acts. As many of these were steamers of the Oil Companies which moored below Hastings a large part of the time of a member of this staff was consumed in going to them. As the companies have a Works Doctor it was arranged with them that this officer, who has to visit each oil vessel, carry out the inspection of these oil steamers on arrival and report to the Port Health Officer each time he did so. This was arranged at the end of 1919 and has worked satisfactorily.

N.B.—*Reporting of infectious disease by Commanders* of inward vessels has been more satisfactorily carried out last year than since plague inspections were stopped in 1908. This is always the case. If inspections on arrival be stopped, reporting is reduced to a dead letter but improves again ultimately if inspections are continued. It is noticeable that the cases reported are mostly those of cholera or ordinary deaths which can be easily discovered on board but many cases that need careful tracing out as those of small-pox go unreported.

4. *Plague*.—No vessels were reported as having brought a case of plague and no vessels were detected as having arrived infected with plague from Indian or foreign ports.

5. *Measures*.—As a result of the visits paid under the regulations referred to in paragraph 3 the following measures were carried out:—

(1) *Inspections*.—Two hundred and five thousand two hundred and seventy-three passengers were inspected, 54,443 were observed or a total of 259,716. The latter included 12,155 passengers arriving under the Indian Ports Act (section 17-2D) and 42,288 non-labourers arriving under the Vaccination Law Amendment Act, both of which under-went observation only. Seven thousand four hundred and fifty-one temperatures were tested of whom 1,494 were normal. The need for a large and well equipped inspection station is very urgent and should be provided early. The following were the results of these measures:—

(a) *Infectious cases* reported and detected were 215 (cholera 105, small-pox 85, chicken-pox 14, measles 5, mumps 1, enteric 5). Of the 105 cases of cholera, 52 died and were buried at sea. Nine were sent to the Rangoon Mortuary, 2 were cases left at other ports, one developed at the passenger's residence in Rangoon and 41 were sent to the Contagious Disease Hospital.

Of the 85 cases of small-pox, 1 was sent to his residence, 4 had been left at other ports, 78 were sent to hospital and 2 developed in hospital from the suspects sent for observation.

Of the above 215 cases, 81 cases of infectious diseases were detected at the inspections under the current notification, the Vaccination and the Indian Ports Act, and of which latter there were 13 cases of cholera, 61 of small-pox and 7 of chicken-pox.

Cholera.—Most cases arrived between January and May.

Small-pox.—Most in March and May and later in November and December.

(b) *Inflamed and enlarged glands* noted and sent for examination of gland tissue were 30 but none of them were found to contain plague bacilli.

(c) *Suspects* sent to hospital for observation for temperature, diarrhoea and undefined skin rashes numbered 5,803.

(d) *Influenza*.—Out of the 5,803 cases sent for observation 695 developed influenza which meant 695 foci of influenza less, so that in addition to the 215 cases of reported and unreported ordinary infectious diseases, if these be added there were 910 cases of infectious disease dealt with by this department on in-coming sea-going vessels. Most cases of influenza arrived in February and fell to almost none in April and May with a slight recrudescence in June and July.

(e) *Lepers* sent to the Police numbered 23.

(2) *Disinfection*.—(a) Of effects of 2,621 members of the crews of infected vessels and of 20,685 passengers by these was duly carried out. A disinfecting pond for immersion of boxes and bath for body cleansing are urgently wanted.

(b) *Disinfection* of 216 vessels was also carried out, of which 77 were washed down with disinfectant solution because of having had infectious or suspicious disease on board and 139 were hosed down because of having had suspected cases of influenza on board.

(3) *Fumigation* of vessels was not necessary as no vessels arrived plague-infected or reported unusual rat mortality.

(4) *Vaccination*.—Two hundred and five thousand two hundred and seventy-three labourers and 30,866 members of crews were inspected for the presence of even one good old or recent vaccination mark. Six thousand two hundred and twenty-eight labourers and 227 members of crews were vaccinated on arrival. Vaccination was carried out by the Municipal Vaccinators. It is a matter for thankfulness that with the slight protection afforded by the present measures with a severe epidemic of small-pox raging at Calcutta for several months, a severe outbreak here has even so far been averted, but for this protection to continue it is advisable to enforce re-vaccination under five years.

(5) *Segregation* can only be imposed against vessels which arrived plague-infected. Experience has however repeatedly shown that at least during the existence of a cholera epidemic in a neighbouring locality or on board a vessel it is extremely advisable to have a short period of segregation so as to weed out the incubating cases before they enter Rangoon.

Port Health Camp.—There was no occasion to make use of this Camp to segregate inward passengers in 1919 as no commanders of in-coming vessels reported that any case of plague (human or rat) had occurred on board on the voyage here. Government Coolies for mines at Tavoy, 647 in number, were accommodated and segregated at the Camp during the year.

(6) *Yellow Fever*.—It is satisfactory to record that measures against the importation of yellow fever are under consideration by Government.

6. (b) *Riverine inward vessels inspected*.—Eight vessels reported the occurrence of infectious and suspicious diseases and underwent the usual measures, 1 for plague, 3 for cholera, 2 for small-pox and 2 for deaths subsequently declared to be due to Heart failure. One vessel underwent fumigation by burning sulphur in the holds.

7. *Vessels in Harbour Visited*.—Eleven vessels underwent measures 4 for cholera, 2 for small-pox, 3 for suspicious illness and 2 on account of deaths. The last 5 proved to be non-infectious diseases. No vessels were fumigated on account of plague as no plague cases were reported. The other measures were duly carried out.

INSPECTION OF OUT-GOING VESSELS.

8. Those proceeding to ports out of India and to Tavoy are dealt with and they only numbered 362 or 249 less than in 1918, due to restrictions on the Rice Trade and to commanding of home passenger vessels for demobilization purposes. The Tavoy vessels numbered 56. All the 18,938 Asiatic and African members of crews and the 18,505 deck passengers had their effects disinfected and the 25,651 members of crew and 23,931 passengers were inspected. The 2,997 baggage coolies were inspected and their uniforms were disinfected prior to their handling passengers' baggage. Six hundred and fifty-eight temperatures were tested and 265 were found normal while 137 were allowed to embark.

on Commander's responsibility. One hundred and thirty-one passes were given to relatives of passengers to see their friends off.

9. *Results*.—One case of cholera, 8 of small-pox, 5 of chicken-pox, 24 of influenza and 214 of suspicious rise of temperature were detained and sent to hospital for observation and treatment. One leper was sent to the Police.

Inflamed and enlarged glands noted or sent for examination of gland tissue for plague bacilli were 3 in number, all of which were examined and none of them were found to harbour plague bacilli. No cases of plague are known to have developed among the crew and passengers of these vessels on their outward voyages. Any of the vessels in which the crews, quarters had not been cleaned were cleaned prior to issue of Bill of Health. *Inspection of measures to prevent the ingress of rats* into vessels at wharves were frequently carried out.

MISCELLANEOUS MEASURES ON OUTWARD VESSELS.

10. *Wearing apparel*.—Two packages booked as cargo were inspected and found clean.

New members of crew inspected prior to signing on the ships' articles were 1,306 and of these 1,196 were passed and 110 rejected, 36 for rise of temperature, 27 for gonorrhœa, 2 for hernia, 3 for phimosis, 2 for hydrocele; 15 for chancre, 1 for ringworm, 1 for syphilis, 9 for gleet and 14 for other causes.

Fumigation of 3 vessels at Agent's request were carried out while empty. Seventy-seven rats were reported to be destroyed, 48 on one and 29 on another vessel. Six rats were sent for bacteriological examination for plague bacilli but none were detected. These vessels required fumigation in order to comply with measures in force at ports of destination (Australia).

Fend of certificates were requested by the Agents of 6 vessels proceeding to Australia and action taken to see that the requirements were duly carried out prior to their issue.

MISCELLANEOUS TRANSACTIONS AND REMARKS.

11. *Examination of Port Commissioners' officers and employés*.—There are 1,869 officers, employés and subordinates including daily labourers. The Medical Boards were on 2 Licensed Pilots for fitness for extension of service. One was recommended and one not. Examinations of candidates for fitness to join were 64 on 33 candidates, of whom 30 passed. Examinations for Medical certificates were 1,443 on 294 employés of whom 3 died and 285 were declared fit leaving 6 on the sick list on 31st December 1919. Three cases of hydrocele required attention at hospital.

Infectious diseases among the employés were plague 1 (contact), cholera 1, small-pox 1, influenza 27.

Port Health Department employés and Police who reported sick were 42, only 3 cases of infectious disease (influenza) are recorded.

12. *Total cases of infectious diseases* dealt with by this department were 1,004 of which influenza were 757 (one-third of 1918) and the rest 247 or 62 more than in 1918.

The cholera cases were twice the number.

The disinfecting Stove was closed for 934 hours and 5 minutes.

13. *Non-infectious diseases* dealt with and sent to hospitals numbered 5,708 or more than double those of 1918. Others not sent to hospital were recorded for reference, including glands and skin diseases.

14. *Port Health Staff*.—For the help rendered me, since my taking over charge again in June 1919, in carrying out the above measures I hereby record my thanks to the entire staff.

I have the honour to be,

SIR,

your most obedient servant,

F. ARTHUR FOY, M.B., C.M., D.P.H.,
Port Health Officer, Rangoon.

APPENDICES.

STATEMENT
Statement showing Incoming Sea-going Vessels

Months.	Not visited (1)							Visits. (2)								
	Number of vessels.	Number of crew.	Number of Passengers.					Number of vessels.	Number of crew.	Number of Passengers.					Number of vessels.	Number of crew.
			Males.	Females.	Boys.	Girls.	Total.			Males.	Females.	Boys.	Girls.	Total.		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
January ...	65	3,715	169	34	4	3	210	39	3,857	25,187	1,194	587	386	27,354	57	4,485
February ...	41	2,500	96	6	5	...	107	29	2,661	19,502	1,082	557	337	21,478	44	3,406
March ...	48	2,781	47	6	...	...	53	34	3,179	24,680	1,853	1,136	551	28,220	62	4,752
April ...	38	2,103	39	4	...	...	43	33	3,360	14,423	1,161	568	410	16,562	57	4,509
May ...	48	3,250	139	16	9	...	164	28	2,979	16,046	1,558	891	501	18,996	56	4,605
June ..	45	3,132	17	...	...	...	17	32	3,573	15,910	1,404	815	432	18,561	56	4,798
July ...	45	2,777	33	5	2	...	40	31	3,330	14,278	1,200	545	374	16,397	58	4,800
August ...	56	3,736	30	4	...	...	34	30	3,398	13,110	1,019	546	286	14,961	67	5,598
September ...	23	1,491	33	34	1	1	69	68	6,267	15,398	1,262	714	407	17,781	68	5,688
October ...	9	714	118	3	...	...	121	127	7,824	23,204	1,430	710	445	25,789	72	5,370
November ...	5	248	...	...	...	...	...	99	7,760	29,847	1,523	705	461	32,536	77	5,931
December ...	11	686	81	...	...	...	81	83	7,668	28,322	2,124	862	571	31,879	67	5,972
Total ...	434	27,133	802	112	21	4	939	633	55,856	239,907	16,810	8,636	5,161	270,514	741	59,914

STATEMENT
Statement showing the inspection of Incoming Sea-going Vessels and the work

Months.				Medical Inspection and Observation.											
				Crew.	Passengers	Temperatures.			Infectious diseases.			Non-Infectious diseases.		Deaths in vessels.	
						Tested.	Normal.	Sick.	Reported.	Detected.	Influenza.	Reported.	Detected.	Infectious.	Non-Infectious.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)			
January	3,473	26,327	338	36	302	17	9	144	...	144	12	7			
February	2,406	20,750	318	28	290	20	10	162	1	111	14	2			
March	2,814	27,497	525	120	405	21	18	127	13	234	8	5			
April	3,026	15,674	217	40	177	14	3	9	16	146	11	10			
May	2,653	18,044	284	56	228	29	4	5	...	201	11	9			
June	3,200	17,863	403	62	341	7	6	74	4	253	3	8			
July	2,986	15,777	480	128	352	1	...	71	9	271	...	6			
August	3,072	14,336	507	171	336	...	4	15	11	306	...	2			
September	5,894	17,273	670	154	516	7	4	34	20	452	1	3			
October	7,381	24,011	869	168	701	1	2	25	52	621	...	3			
November	7,316	31,552	1,430	268	1,162	7	9	24	44	1,079	1	3			
December	7,178	30,812	1,410	263	1,147	10	12	5	36	1,084	...	3			
Total	51,399	259,716	7,451	1,494	5,957	134	81	695	206	4,902	61	61			

No. I.

during the year ending the 31st December 1919.

From Indian ports. (3)					From Foreign Ports. (4)							Totals of (1) and (2) or (3) and (4).						
Number of Passengers.					Number of vessels. (23)	Number of crew. (24)	Number of Passengers.					Number of vessels. (30)	Number of crew. (31)	Number of Passengers.				
Males. (18)	Females. (19)	Boys. (20)	Girls. (21)	Total. (22)			Males. (25)	Females. (26)	Boys. (27)	Girls. (28)	Total. (29)			Males. (32)	Females. (33)	Boys. (34)	Girls. (35)	Total. (36)
24,664	1,120	539	355	26,678	47	3,087	692	108	52	34	886	104	7,572	25,356	1,228	591	389	27,564
19,425	1,071	552	334	21,382	26	1,755	173	17	10	3	203	70	5,161	19,598	1,088	562	337	21,585
24,057	1,584	954	460	27,055	20	1,208	670	275	182	91	1,218	82	5,960	24,727	1,859	1,136	551	28,273
14,268	1,129	553	397	16,347	14	954	194	36	15	13	258	71	5,463	14,462	1,165	568	410	16,605
15,727	1,477	846	472	18,522	20	1,624	458	97	54	29	638	76	6,229	16,185	1,574	900	501	19,160
15,446	1,349	795	418	18,008	21	1,907	481	55	20	14	570	77	6,705	15,927	1,404	815	432	18,578
13,977	1,151	506	352	15,986	18	1,307	334	54	41	22	451	76	6,107	14,311	1,205	547	374	16,437
12,500	918	462	254	14,134	19	1,536	640	105	84	32	861	86	7,134	13,140	1,023	546	286	14,995
13,282	1,139	645	361	15,427	23	2,070	2,149	157	70	47	2,423	91	7,758	15,431	1,296	715	408	17,850
21,685	1,261	636	403	23,985	64	3,168	1,637	172	74	42	1,925	136	8,538	23,322	1,433	710	445	25,910
29,180	1,391	611	439	31,621	27	2,077	667	132	94	22	915	104	8,008	29,847	1,523	705	461	32,536
26,995	1,903	756	519	30,153	27	2,382	1,408	221	126	52	1,807	94	8,354	28,403	2,124	862	571	31,960
2,31,206	15,493	7,835	4,764	259,298	326	23,075	9,503	1,429	822	401	12,155	1,067	82,989	240,709	16,922	8,657	5,165	271,453

No. II.

done by the Port Health Department during the year ending 31st December 1919.

Non-labourers observed under Vaccination Law Amendment Act.					Observed under section 17-2D, Indian Ports Act.					Vaccination.						Disinfection.		
Males. (14)	Females. (15)	Boys. (16)	Girls. (17)	Total. (18)	Males. (19)	Females. (20)	Boys. (21)	Girls. (22)	Total. (23)	Crew.			Labourers.			Vessels. (30)	Crew. (31)	Passengers. (32)
										Protected. (24)	Unprotected. (25)	Vaccinated at Wharf. (26)	Protected. (27)	Unprotected. (28)	Vaccinated at Wharf. (29)			
2,076	896	499	321	3,792	692	108	52	34	886	2,343	...	...	21,373	276	276	7	322	2,098
1,650	864	479	297	3,290	173	17	10	3	203	1,917	3	3	16,934	323	323	8	365	4,611
1,985	1,386	885	398	4,654	670	275	182	91	1,218	2,409	12	12	21,225	400	400	21	613	5,701
1,560	905	486	307	3,258	194	36	15	13	258	2,449	44	44	11,894	264	263	8	261	1,957
1,836	1,205	736	373	4,150	458	97	54	29	638	2,038	...	...	13,002	254	254	10	680	4,459
1,095	1,160	747	365	3,367	481	55	20	14	570	2,187	48	48	13,672	254	253	9	248	1,454
959	1,018	461	317	2,755	334	54	41	22	451	2,446	...	...	12,422	149	149	6	27	224
1,092	752	406	206	2,456	640	105	84	32	861	2,332	6	6	10,543	476	474	6	...	...
1,444	987	586	291	3,308	2,149	157	70	47	2,423	2,786	16	16	10,509	833	831	33	...	6
1,827	1,086	581	333	3,827	1,637	172	74	42	1,925	2,992	7	7	17,366	893	893	35	...	175
1,483	1,177	526	330	3,516	667	132	94	22	915	3,258	18	18	26,271	850	850	34	...	...
1,262	1,593	627	433	3,915	1,408	221	126	52	1,807	3,482	73	73	23,827	1,263	1,262	39	105	...
18,269	13,029	7,019	3,971	42,288	9,503	1,429	822	401	12,155	30,639	227	227	199,038	6,235	6,228	216	1,621	20,685

STATEMENT

Statement showing Infectious and other Diseases reported and detected on In-coming

Diseases.		January.		February.		March.		April.		May.		June.		July.		August.		September.	
		Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
Sea-Going Vessels.																			
Plague—																			
Cholera	...	4	18	3	27	4	18	2	11	4	19	5	7	1	1	...	...	2	3
Small-pox	...	3	8	3	3	9	17	3	3	4	13	3	6	...	...	4	4	4	8
Chicken-pox	...	...	...	...	...	2	2	2	3	1	1	...	...	...	...	...	...	...	...
Measles	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
Mumps	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
Enteric Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jigger	...	1	...	2	...	...	...	4	...	1	...	1	...	4	...	...	...	2	...
Influeuza	...	...	144	...	162	...	127	...	9	...	5	...	74	...	71	...	15	...	34
Suspicious illness	...	...	137	...	104	...	232	...	156	...	195	...	245	...	273	...	291	...	442
Ordinary illness	...	...	6	...	6	...	12	...	5	...	5	...	9	...	5	...	22	...	16
Lepers	...	...	1	...	2	...	3	...	1	...	1	...	1	...	2	...	2	...	2
Glands	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	2	...	12
Deaths	...	7	7	...	2	2	5	4	10	...	9	7	8	5	6	2	2	3	3
Total	...	15	321	8	306	19	418	15	198	10	248	16	352	10	358	6	338	11	520
Riverine Vessels.																			
Plague	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cholera	...	...	...	...	...	1	1	1	1	1	1	...	...	...	...	...	...	...	...
Small-pox	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...
Suspicious illness	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Deaths	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...
Total	...	...	...	...	...	1	1	2	2	1	1	...	...	1	1	...	...	...	...
Vessels in Port.																			
Cholera	...	...	...	...	...	...	...	2	2	...	...	1	1	...	...	...	...	...	...
Small-pox	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...
Enteric	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Influenza	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	...	2	1	2
Suspicious illness	...	...	...	...	...	...	...	...	...	...	...	1	2	1	1	1	1	...	...
Deaths	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	...	...	...	...	...	3	3	...	...	3	4	1	2	1	3	1	2
GRAND TOTAL	...	15	321	8	306	20	419	20	203	11	249	19	356	12	361	7	341	12	522

* Including 17 Vessels

No. III

Sea-going Vessels, during the year ending 31st December 1919.

October.		November.		December.		Total.		Disposal of Cases.															
								Sick.								Corpses							
								Hospitals.															
Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.	Vessels.	Cases.	Contagious Diseases.	Government Plague.	Civil General.	Military.	Other.	Leper asylum.	Residences.	Left on board.	Left at other ports.	Total.	Left at other ports.	Buried at sea.	Rangoon mortuary.	Total.		
(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)		
...	...	1	1	...	...	26	105	41	...	...	...	...	...	1	...	2	44	...	52	9	61		
2	2	6	9	7	12	48	85	80	...	...	...	...	...	1	...	4	85	...	...	...	...
1	1	...	1	3	6	9	14	14	...	...	...	...	...	...	...	...	14	...	...	...	...
...	...	...	...	...	4	1	5	...	...	...	...	...	...	4	...	1	5	...	...	...	...
...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	1	...	...	...	...
...	...	1	5	...	...	1	5	...	...	5	...	...	...	...	...	...	5	...	...	...	...
1	...	...	...	1	...	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	25	...	24	...	5	...	695	300	60	1	33	...	...	1	...	...	695	...	...	...	...
...	643	...	1,087	...	1,105	...	4,910	2,293	2,326	...	122	...	...	157	12	...	4,910	...	...	...	...
...	18	...	31	...	10	...	145	...	...	41	...	...	...	74	30	...	145	...	...	...	...
...	3	...	2	...	3	...	23	...	...	...	...	...	23	...	...	...	23	...	...	...	...
...	9	...	3	...	2	...	30	...	30	...	...	...	...	...	...	...	30	...	...	...	...
3	3	3	3	2	3	38	61	...	...	...	...	...	...	...	...	...	...	...	60	1	61		
7	704	11	1,166	13	1,150	*141	6,079	2,729	2,416	47	122	333	23	238	42	7	5,957	...	119	10	129		
...	...	...	...	1	1	1	1	...	1	...	...	...	...	...	...	...	1	...	...	...	...
...	...	...	...	...	...	3	3	1	...	...	...	...	...	...	...	1	2	...	...	1	1		
1	1	...	...	...	...	2	2	1	...	...	...	...	...	...	...	1	2	...	...	...	...
...	1	...	...	...	2	...	3	1	2	...	...	...	...	...	...	...	3	...	...	...	...
...	...	...	...	1	1	2	2	...	...	...	...	...	...	...	...	...	...	...	...	2	2		
1	2	...	...	2	4	8	11	3	3	...	...	...	...	...	...	2	8	...	...	3	3		
...	...	...	...	1	2	4	5	4	...	...	...	...	...	...	...	...	4	...	...	1	1		
...	...	1	1	...	...	2	2	...	...	...	...	...	...	...	...	...	2	...	...	...	...
...	...	...	1	...	...	...	1	...	...	1	...	...	...	...	...	...	1	...	...	...	...
...	1	...	...	...	...	2	7	3	4	...	...	...	...	...	...	...	7	...	...	...	...
...	1	...	8	...	7	3	20	4	16	...	...	...	...	...	...	...	20	...	...	...	...
2	2	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	2	2		
3	4	1	10	1	9	13	31	23	20	1	...	...	...	...	...	...	34	...	...	3	3		
10	710	12	1,176	16	1,163	*162	6,127	2,745	2,439	48	122	333	23	238	42	9	5,999	...	112	16	128		

inspected for gigger.

STATEMENT

Statement showing the work done in connection with Out-going Vessels bound

Months.	Number of vessels.	Shore Inspection.														Results of Inspection.				
		Asiatic crew.	Deck Passengers.					European crew.	Saloon Passengers					Passes to relatives and friends.	Baggage coolies.	Temperature.				
			Males.	Females.	Boys.	Girls.	Total.		Males.	Females.	Boys.	Girls.	Total.			Glands.	Tested.	Normal.	Allowed on m. c. or at Commander's request.	Cases detained.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
January	50	2,369	1,516	175	100	37	1,828	871	224	56	20	13	313	5	138	3	31	6	21	7
February	23	1,214	1,464	184	69	37	1,754	522	177	143	47	34	401	20	253	2	36	5	11	22
March ...	23	1,099	2,307	254	125	63	2,749	438	228	95	48	32	403	10	283	1	49	17	10	23
April ...	25	1,158	1,375	196	84	44	1,699	400	193	59	17	9	278	...	242	2	41	16	8	19
May ...	23	1,308	1,448	235	120	61	1,864	490	238	125	53	54	470	5	283	...	14	4	...	10
June ...	23	1,506	1,656	137	48	39	1,880	515	226	98	37	34	395	5	378	...	41	4	8	29
July ...	21	1,157	709	79	29	15	832	507	222	100	47	41	410	27	193	...	52	21	9	22
August	23	1,083	762	97	24	20	903	464	122	36	7	11	176	6	272	2	22	13	6	5
September	26	1,455	691	106	35	23	855	480	164	93	41	30	328	21	156	...	52	35	3	14
October	29	1,870	844	127	49	37	1,057	534	249	78	19	24	370	13	235	...	61	33	11	17
November	42	2,522	1,446	207	84	52	1,789	736	1,428	69	16	9	1,542	5	289	...	119	39	25	55
December	54	2,197	1,040	182	43	30	1,295	756	201	93	30	10	340	5	275	1	127	70	25	33
Total ...	362	18,938	15,258	1,979	810	458	18,505	6,713	3,672	1045	382	327	5,426	131	2,997	11	645	263	137	256

STATEMENT

Statement showing Medical Inspection of Port Trust Officers, Employés

Months.			Medical Boards.				Port Trust Candidates.		
			Pilots examined for		Officers examined for		Number of examinations of candidates.	Number of candidates examined.	Number of candidates passed.
			Leave	Physical fitness	Leave.	Physical fitness.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
January	2	1	1		
February	7	3	3		
March	5	2	2		
April	...	1	1	...	7	5	4		
May	11	5	5		
June	9	5	5		
July	3	1	1		
August	7	4	4		
September	2	2	1		
October	4	2	2		
November	2	1	...		
December	5	2	2		
Total	...	1	1	64	33	30	

No. IV.

for Ports beyond India during the year ending 31st December 1919.

Diseases.					Disposal of sick.						Disinfection.				Fumigation with Clayton apparatus at Agent's request.				
Cholera.	Small-pox.	Chicken-pox.	Influenza.	Fever and other ailments.	Civil General Hospital.	Government Plague Hospital.	Contagious Diseases Hospital.	Temporary Municipal Hospital.	Passengers' residences.	Leper Asylum.	Asiatic crew and passengers' effects.	Boots and shoes.	Boxes.	Baggage coolies.	Vessels.	Sulphur consumed.	Time spent.	Amount realized.	
(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	
																lb.	H. M.	Rs.	
..	..	..	2	5	3	2	1	1	..	..	4,197	826	430	138	..	..	..	..
..	..	..	4	18	3	4	3	2	10	..	2,968	665	430	253	..	..	..	..
1	2	2	3	15	..	1	16	3	3	..	3,848	446	279	283	..	..	..	..
..	1	2	3	13	..	..	16	1	2	..	2,857	492	302	242	..	..	..	..
..	1	1	..	8	1	..	9	..	..	..	3,172	572	381	283	..	..	..	..
..	..	..	5	24	3	3	23	..	..	..	3,386	677	418	378	1	456	12'30	390
..	1	..	4	17	3	..	17	..	1	1	1,989	565	347	193	1	541	17'00	390	
..	..	..	..	5	..	..	5	..	..	..	1,986	425	233	272	..	..	..	..
..	..	..	..	14	..	1	8	..	5	..	2,310	483	384	156	1	340	25'00	330
..	..	..	1	16	4	9	4	..	..	..	2,927	478	672	235	..	..	..	..
..	..	..	1	54	3	51	..	..	1	..	4,311	1,031	581	289	..	..	..	..
..	3	..	1	29	1	26	4	..	2	..	3,492	514	493	275	..	..	..	..
1	8	5	24	218	21	97	106	7	24	1	37,443	7,174	4,951	2,997	3	1,337	54'30	1,110	

No. V.

and Shipping Office Crew during the year ending 31st December 1919.

Port Trust employés for medical certificate.				Epidemic Diseases.				Examination of new crew.			Examination of sick persons of Port Health Department, Plague, Police and employés.	
Number of employés on sick list on last day of previous month.	Number of employés who took ill during the year.	Number of examinations of employés.	Number of employés declared fit at expiry of medical leave.	Plague.	Cholera.	Small-pox.	Influenza.	Number examined.	Number passed.	Number rejected.	Number of Plague Police Constables examined.	Number of Port Health employés examined.
(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
4	16	72	20	..	..	1	1	16	16	..	1	..
1	13	91	14	..	..	..	2	206	200	6	2	..
3	13	43	16	..	..	..	2	17	17	..	..	..
2	15	86	17	..	..	..	..	41	38	3	2	1
2	11	74	13	..	1	..	2	40	39	1	3	1
3	38	188	40	1	..	..	6	194	185	9	3	2
11	32	223	Died 1 43	..	..	..	4	135	119	16	1	4
6	25	234	31	..	..	..	3	98	90	8	4	2
8	22	116	30	..	..	..	2	188	156	32	3	6
3	23	129	24 Died 2	..	..	..	3	55	50	5	1	2
3	20	69	23	..	..	..	2	133	124	9	2	1
8	12	118	14	..	..	..	..	183	162	21	..	1
54	240	1,143	288	1	1	1	27	1,306	1,196	110	22	20

STATEMENT NO. VI.

*Statement showing the ordinary diseases sent to Hospitals during the year ending
31st December 1919.*

Names of Diseases.	In-coming.	Out-going.	Riverine.	Port.		Port Trust.		New crew inspection.	Foresore.	Port Health Department.			Total.
(1)	(2)	(3)	(4)	Vessels.	Launches.	Shore.	Launches.	(9)	(10)	Plague police.	Shore.	Launches.	(14)
Rise of temperature ...	4,820	181	3	7	...	17	16	36	...	2	4	...	5,086
Malaria ...	44	7	...	2	...	23	5	...	1	...	3	...	85
Anæmia ...	4	...	...	...	...	2	...	...	...	...	...	...	6
Beri-beri ...	2	...	...	...	...	...	...	...	...	...	...	...	2
Leprosy ...	23	1	...	...	...	...	...	2	...	...	...	...	26
Dysentery ...	8	1	...	2	...	12	3	...	...	1	1	...	28
Debility ...	4	1	...	...	...	12	2	...	...	1	1	1	22
Tuberculosis ...	2	...	...	...	...	1	...	...	...	...	...	...	3
Rheumatism ...	1	...	...	...	...	5	2	...	...	...	...	...	8
Myalgia ...	...	...	...	...	...	2	1	...	...	...	...	...	3
Bronchitis ...	7	...	...	...	...	2	2	...	...	...	...	...	11
Pneumonia ...	7	...	...	...	...	1	...	...	...	1	...	...	9
Tonsillitis ...	1	...	...	...	...	...	...	...	...	...	...	...	1
Asthma ...	1	...	...	...	...	2	...	...	...	...	...	...	3
Diarrhoea ...	23	1	...	4	...	4	2	...	...	2	1	...	37
Dyspepsia ...	...	...	...	...	...	4	1	...	...	...	...	...	5
Constipation ...	2	...	...	...	...	2	2	...	...	2	1	...	9
Colic ...	...	...	...	...	...	1	...	...	...	...	...	...	1
Oedema ...	1	...	...	...	...	1	1	...	...	...	...	...	3
Ascitis ...	1	...	...	...	...	1	...	...	...	...	...	...	2
Jaundice ...	1	...	...	...	...	...	...	...	...	...	...	...	1
Neuralgia and Sciatica ...	...	...	...	...	...	1	...	...	...	...	1	...	2
Giddiness ...	1	...	...	...	...	...	...	...	...	...	...	...	1
Neuritis ...	...	...	...	...	...	1	...	...	...	...	...	...	1
Haemorrhage ...	...	...	...	...	...	1	...	...	...	...	...	...	1
Ringworm ...	2	...	...	...	...	...	1	1	...	...	...	1	5
Eczema ...	9	...	...	...	...	...	1	6	1	...	1	...	18
Scabies ...	4	...	...	...	...	1	...	2	1	...	...	...	8
Herpes ...	...	...	...	...	...	...	...	...	...	1	...	...	1
Doubtful rash ...	35	2	...	...	...	...	...	2	...	...	...	...	39
Injury and Wound ...	3	...	...	2	...	3	6	...	...	...	2	...	16
Ulcer ...	6	1	...	...	...	2	...	...	...	2	...	...	11
Burn ...	2	1	...	...	...	1	...	...	...	...	...	...	4
Boil and Abscess ...	5	...	...	1	...	5	1	...	...	2	1	...	15
Contusion and Abrasions ...	1	...	...	...	...	2	...	...	...	...	...	1	4
Synovitis ...	...	...	...	...	...	...	1	...	...	...	...	...	1
Cellulitis ...	1	...	...	...	...	1	...	...	...	...	...	...	2
Syphilis ...	10	3	...	...	...	2	...	1	...	...	...	...	16
Gonorrhoea ...	9	6	...	...	...	5	2	27	...	...	1	...	50
Bubo ...	8	3	...	1	...	...	1	2	...	1	1	...	17
Gleet ...	1	...	...	...	...	...	...	9	...	...	...	...	10
Chancre ...	15	4	...	1	...	3	1	15	...	1	...	...	40
Hydrocele ...	...	...	...	...	...	3	...	2	1	...	...	...	6
Phimosis ...	...	1	...	...	...	...	...	3	...	...	...	...	4
Orchitis ...	1	1	...	...	...	1	...	...	...	...	...	...	3
Hernia ...	...	...	...	...	...	...	...	2	...	...	...	...	2
Earache ...	...	...	...	...	...	1	1	...	...	1	...	...	3
Conjunctivitis ...	2	...	...	...	...	1	2	...	...	1	...	...	6
Trachoma ...	1	...	...	...	...	...	...	...	...	...	...	...	1
Other eye complaints ...	3	...	...	...	...	2	3	...	...	...	...	...	8
Fracture ...	1	1	...	...	...	1	...	...	...	...	...	...	3
Pains ...	...	...	...	...	...	6	2	...	1	2	1	...	12
Insanity ...	1	...	...	...	...	...	...	...	...	...	...	...	1
Heart Disease ...	1	...	...	...	...	1	...	...	...	...	...	...	2
Mitral regurgitation ...	...	...	...	...	...	1	...	...	...	...	...	...	1
Palpitation ...	...	...	...	...	...	2	...	...	...	...	...	...	2
Stone in bladder ...	1	...	...	...	...	...	...	...	...	...	...	...	1
Urethritis ...	1	...	...	...	...	...	...	...	...	...	...	...	1
Cholecystitis ...	1	...	...	...	...	...	...	...	...	...	...	...	1
Tumour ...	...	...	...	...	...	...	1	...	...	...	...	...	1
Whitlow ...	1	...	...	...	...	...	...	...	...	...	...	...	1
Enlarged glands ...	30	3	...	...	...	3	...	...	...	...	...	...	36
Total ...	5,108	218	3	20	...	142	60	110	5	20	19	3	5,708

F. ARTHUR FOY, M.B., C.M.,
D.P.H.,—13-3-20,
Port Health Officer, Rangoon.

ANNUAL REPORT
OF THE
PORT HEALTH OFFICER, RANGOON

FOR THE YEAR 1919



RANGOON
OFFICE OF THE SUPERINTENDENT, GOVERNMENT PRINTING, BURMA
1920